



Head TSL parameters at 5750 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	5.02 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.08 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.4 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.31 W/kg

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	5.07 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.9 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1060_Jul19

Page 6 of 23





Body TSL parameters at 5200 MHz

The following parameters and calculations were appli	ied.		
· · · · ·	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.3 ± 6 %	5.43 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.41 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	73.6 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL SAR measured	condition 100 mW input power	2.08 W/kg

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.2 ± 6 %	5.49 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.67 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.3 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1060_Jul19

Page 7 of 23





Body TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.1 ± 6 %	5.56 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.52 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	74.7 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR averaged over 10 cm (10 g) of body 13L	condition	
SAR averaged over 10 cm (10 g) of Body 13L	100 mW input power	2.13 W/kg

Body TSL parameters at 5500 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.6	5.65 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.7 ± 6 %	5.83 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.00 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	79.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 \mbox{cm}^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1060_Jul19

Page 8 of 23





Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.6 ± 6 %	5.97 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.87 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.2 W/kg ± 19.9 % (k=2)
SAR overaged over 10 cm ³ (10 g) of Rody TSI	condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition 100 mW input power	2.22 W/kg

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.3 ± 6 %	6.17 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.79 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	77.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.18 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1060_Jul19

Page 9 of 23



Body TSL parameters at 5800 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.2 ± 6 %	6.24 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.51 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	74.6 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL SAR measured	condition 100 mW input power	2.09 W/kg

Certificate No: D5GHzV2-1060_Jul19

Page 10 of 23





Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	48.7 Ω - 5.5 jΩ
Return Loss	- 24.9 dB

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	48.6 Ω - 4.0 jΩ	
Return Loss	- 27.5 dB	

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	47.7 Ω - 3.3 jΩ	
Return Loss	- 27.7 dB	

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	50.9 Ω - 3.9 jΩ	
Return Loss	- 28.2 dB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.2 Ω + 0.3 jΩ
Return Loss	- 27.9 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	51.7 Ω - 0.8 jΩ
Return Loss	- 34.7 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	52.1 Ω - 2.4 jΩ
Return Loss	- 30.1 dB

Certificate No: D5GHzV2-1060_Jul19

Page 11 of 23





Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	48.9 Ω - 5.6 jΩ
Return Loss	- 24.8 dB

Antenna Parameters with Body TSL at 5250 MHz

48.0 Ω - 2.2 jΩ
- 30.4 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	48.3 Ω - 3.0 jΩ
Return Loss	- 29.1 dB

Antenna Parameters with Body TSL at 5500 MHz

Impedance, transformed to feed point	50.2 Ω - 2.2 jΩ	
Return Loss	- 33.1 dB	

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.5 Ω + 1.0 jΩ	
Return Loss	- 25.5 dB	

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	52.3 Ω + 0.8 jΩ	
Impedance, transformed to focd point		
Return Loss	- 32.3 dB	

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	52.9 Ω - 1.8 jΩ	
Return Loss	- 29.5 dB	

Page 12 of 23





General Antenna Parameters and Design

Electrical Delay (one direction)	1.201 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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Certificate No: D5GHzV2-1060_Jul19

Page 13 of 23





DASY5 Validation Report for Head TSL

Date: 22.07.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1060

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5250 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5700 MHz, Frequency: 5800 MHz Medium parameters used: f = 5200 MHz; σ = 4.46 S/m; ϵ_r = 35.5; ρ = 1000 kg/m³, Medium parameters used: f = 5250 MHz; σ = 4.51 S/m; ϵ_r = 35.5; ρ = 1000 kg/m³, Medium parameters used: f = 5300 MHz; σ = 4.56 S/m; ϵ_r = 35.4; ρ = 1000 kg/m³, Medium parameters used: f = 5500 MHz; σ = 4.76 S/m; ϵ_r = 35.1; ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 4.86 S/m; ϵ_r = 35, ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 5.02 S/m; ϵ_r = 34.8; ρ = 1000 kg/m³, Medium parameters used: f = 5800 MHz; σ = 5.07 S/m; ϵ_r = 34.7; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.64, 5.64, 5.64) @ 5200 MHz, ConvF(5.4, 5.4, 5.4) @ 5250 MHz, ConvF(5.39, 5.39, 5.39) @ 5300 MHz, ConvF(5.1, 5.1, 5.1) @ 5500 MHz, ConvF(4.95, 4.95, 4.95) @ 5600 MHz, ConvF(4.98, 4.98, 4.98) @ 5750 MHz, ConvF(4.96, 4.96, 4.96) @ 5800 MHz; Calibrated: 25.03.2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2019
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.16 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 28.1 W/kg SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.32 W/kg Maximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.71 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 27.3 W/kg SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.33 W/kg Maximum value of SAR (measured) = 17.8 W/kg

Certificate No: D5GHzV2-1060_Jul19

Page 14 of 23





Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 75.07 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 28.8 W/kg SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.37 W/kg Maximum value of SAR (measured) = 18.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.21 V/m; Power Drift = 0.7 dB Peak SAR (extrapolated) = 32.1 W/kg SAR(1 g) = 8.51 W/kg; SAR(10 g) = 2.43 W/kg Maximum value of SAR (measured) = 19.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 75.03 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 31.0 W/kg SAR(1 g) = 8.49 W/kg; SAR(10 g) = 2.43 W/kg Maximum value of SAR (measured) = 19.4 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 71.89 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 31.1 W/kg SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.31 W/kg Maximum value of SAR (measured) = 18.8 W/kg

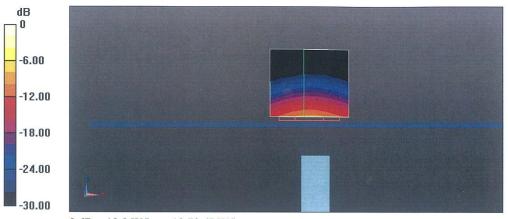
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.69 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 31.8 W/kg SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.30 W/kg Maximum value of SAR (measured) = 19.0 W/kg

Certificate No: D5GHzV2-1060_Jul19

Page 15 of 23







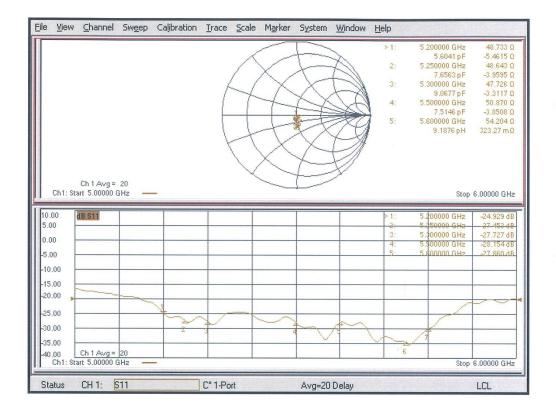
0 dB = 19.0 W/kg = 12.79 dBW/kg

Certificate No: D5GHzV2-1060_Jul19

Page 16 of 23







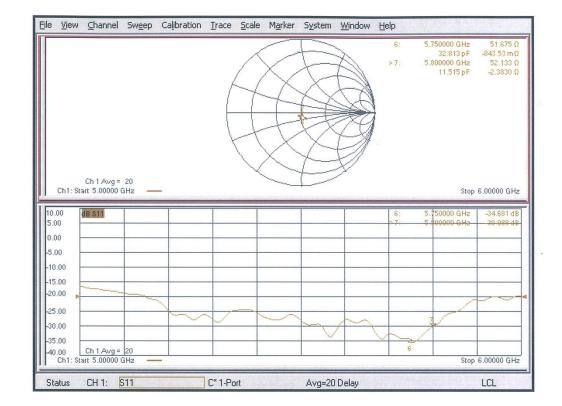
Impedance Measurement Plot for Head TSL (5200, 5250, 5300, 5500, 5600 MHz)

Certificate No: D5GHzV2-1060_Jul19

Page 17 of 23







Impedance Measurement Plot for Head TSL (5750, 5800 MHz)

Certificate No: D5GHzV2-1060_Jul19

Page 18 of 23





DASY5 Validation Report for Body TSL

Date: 22.07.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1060

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5250 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5700 MHz, Frequency: 5800 MHz Medium parameters used: f = 5200 MHz; σ = 5.43 S/m; ϵ_r = 47.3; ρ = 1000 kg/m³, Medium parameters used: f = 5250 MHz; σ = 5.49 S/m; ϵ_r = 47.2; ρ = 1000 kg/m³, Medium parameters used: f = 5300 MHz; σ = 5.56 S/m; ϵ_r = 47.1; ρ = 1000 kg/m³, Medium parameters used: f = 5500 MHz; σ = 5.83 S/m; ϵ_r = 46.7; ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 5.97 S/m; ϵ_r = 46.6; ρ = 1000 kg/m³, Medium parameters used: f = 5750 MHz; σ = 6.17 S/m; ϵ_r = 46.2; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.14, 5.14, 5.14) @ 5200 MHz, ConvF(5.26, 5.26, 5.26) @ 5250 MHz, ConvF(5.25, 5.25, 5.25) @ 5300 MHz, ConvF(4.79, 4.79, 4.79) @ 5500 MHz, ConvF(4.74, 4.74, 4.74) @ 5600 MHz, ConvF(4.62, 4.62, 4.62) @ 5750 MHz, ConvF(4.62, 4.62, 4.62) @ 5800 MHz; Calibrated: 25.03.2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2019
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 68.89 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 27.5 W/kg SAR(1 g) = 7.41 W/kg; SAR(10 g) = 2.08 W/kg Maximum value of SAR (measured) = 17.2 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 69.26 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 29.2 W/kg SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.15 W/kg Maximum value of SAR (measured) = 17.9 W/kg

Certificate No: D5GHzV2-1060_Jul19

Page 19 of 23





Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 68.18 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 29.0 W/kgSAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.13 W/kgMaximum value of SAR (measured) = 17.4 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 69.45 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 32.7 W/kg SAR(1 g) = 8 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 68.13 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 32.9 W/kg SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.22 W/kg Maximum value of SAR (measured) = 18.8 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 67.49 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 34.1 W/kg SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.18 W/kg Maximum value of SAR (measured) = 19.0 W/kg

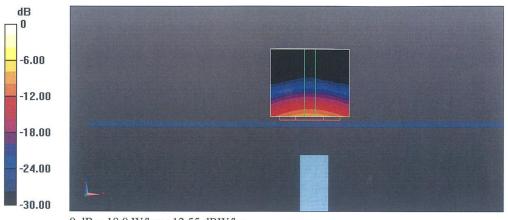
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 66.59 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 32.0 W/kg SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.09 W/kg Maximum value of SAR (measured) = 18.0 W/kg

Certificate No: D5GHzV2-1060_Jul19

Page 20 of 23







0 dB = 18.0 W/kg = 12.55 dBW/kg

Certificate No: D5GHzV2-1060_Jul19

Page 21 of 23





ile	View	Channel	Sw <u>e</u> ep	Calibration	Trace	<u>S</u> cale	Marker	System	Window	Help		
								1	_	1:	5.200000 GHz	48.886 Ω
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10.00 5.00			3Hz							2: 3:	5.200000 GHz 5.250000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB
10.00 5.00 0.00			3Hz							2:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 0.00 -5.00			3Hz							2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 0.00 -5.00			3Hz							2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 0.00 -5.00 -10.0			3Hz							2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB
10.00 5.00 0.00 -5.00 -10.0 -15.0			3Hz							2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 -5.00 -10.0 -15.0 -20.0			3Hz							2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 -5.00 -10.0 -15.0 -20.0			3Hz							2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 -5.00 -10.0 -15.0 -25.0										2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 -5.00 -10.0 -15.0 -20.0 -25.0 -30.0					3					2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 -5.00 -10.0 -15.0 -25.0 -25.0 -30.0		BSII			3					2: 3: 4:	5.200000 GHz 5.250000 GHz 5.300000 GHz 5.300000 GHz 5.300000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB
10.00 5.00 -5.00 -10.0 -15.0 -20.0 -25.0 -30.0 -35.0 40.0			20		3					2: 3: 4:	5,200000 GHz 5,50000 GHz 5,20000 GHz 5,50000 GHz 5,50000 GHz 5,500000 GHz 5,500000 GHz	-24.777 dB -29.412 dB -29.089 dB -33.128 dB

Impedance Measurement Plot for Body TSL (5200, 5250, 5300, 5500, 5600 MHz)

Certificate No: D5GHzV2-1060_Jul19

Page 22 of 23





System File View Channel Sweep Calibration Trace Scale Marker Window Help 5.750000 GHz 22.141 pH 5.800000 GHz 14.931 pF 52.337 Ω 799.92 mΩ 52.894 Ω -1.8378 Ω 6 >7: Ch 1 Avg = 20 Ch1: Start 5.00000 GHz Stop 6.00000 GHz 10.00 5.00 dB S11 -32.346 dB -28.548 dB 0000 GH: 0.00 -5.00 10.00 -15.00 -20.00 25.00 30.00 × -35.00 40.00 Ch 1 Avg = 20 Ch1: Start 5.00000 GHz Stop 6.00000 GHz Status CH 1: S11 C* 1-Port Avg=20 LCL

Impedance Measurement Plot for Body TSL (5750, 5800 MHz)

Certificate No: D5GHzV2-1060_Jul19

Page 23 of 23





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